



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Chief, Enforcement Branch
Water Division (WC-15J)
United States Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

April 11, 2017
PJ/DW

Subject: Consent Decree – Case No. 2:96-CV-96-RL-1
Dewatering Well System, 1st Quarter 2017
ArcelorMittal Burns Harbor, LLC

Dear Sir:

This is to provide the quarterly monitoring report required by Paragraph 23 of the subject Consent Decree. Attachment 1 provides a summary of the nitrogen ammonia analytical results for the monthly grab samples of the combined dewatering well waters as required by Paragraph 20 of the Decree. Attachment 2 provides a table that depicts the daily total flow in thousand gallons per day, from the dewatering well system as required in Paragraph 19 of the Decree. Attachment 3 provides the "East Harbor Arm – Dewatering Monitoring Status Report" sheets for January, February, and March, 2017 compiled by our groundwater consultant, Weaver Consultants Group. These reports provide the level of groundwater in each of the piezometers and the Outfall 002 surface water staff gauge levels as required by Paragraph 9 of the Decree.

This letter will also provide Burns Harbor's statement that "all of the wells, pumps, and pipes in the Dewatering Well System are functioning", as specified in Paragraph 23 of the Decree

As described in previous letters on October 23, 2000 and January 23, 2001 from D. Bley to Mr. J. Fillippini, et. al., and as witnessed by Mr. G. Golubski, water levels in Lake Michigan have been extremely low. Recently, the lake has begun to experience a rise in level. The average level for the quarter was 580.0 feet with a low of 579.6 feet.

The Decree requires that the ground water in the piezometers along the face of the dock wall be maintained at certain depths in reference to Lake levels. These depths vary from piezometer to piezometer and were based on Burns Harbor's experience in operating the wells in 1996 and 1997. The dewatering wells with the exceptions noted above continue to operate properly but several are at depths near their screens and cannot



ArcelorMittal

be adjusted lower. As a result, it has not been possible to maintain the depths specified in the Decree for the piezometers. In the past quarter, all of the piezometers were consistently above the level specified. There is a limit to the level that the wells can operate without damaging the screens or the pumps, and we have reached that limit.

As noted in previous quarterly reports, Mr. Bley has received your office's informal agreement that the drop in lake water level should be viewed as a "force majeure" under the Decree. The more important point is that the well system continues to operate in a manner that meets its purpose.

If there are any questions concerning this matter, please contact T. E Kirk or me at (219) 787-2712.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

[Signature]

R.A. Maciel
Environmental Management Department

Attachments

April 11, 2017
Ref: PJ/DW

Attachment 1
ArcelorMittal Burns Harbor, LLC
Nitrogen Ammonia Analytical Report
Dockwell Sampling Summary

<u>Date</u>	<u>Nitrogen Ammonia (mg/l)</u>
1/11/17	5.8
2/09/17	7.1
3/07/17	6.4

April 11, 2017

Ref.: PJ/DW

Attachment 2

ArcelorMittal Burns Harbor, Dewatering Well Flow

<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>	<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>	<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>
01-Jan-17	213	01-Feb-17	229	01-Mar-17	213
02-Jan-17	212	02-Feb-17	235	02-Mar-17	255
03-Jan-17	211	03-Feb-17	234	03-Mar-17	249
04-Jan-17	211	04-Feb-17	233	04-Mar-17	245
05-Jan-17	215	05-Feb-17	230	05-Mar-17	243
06-Jan-17	222	06-Feb-17	229	06-Mar-17	242
07-Jan-17	223	07-Feb-17	230	07-Mar-17	240
08-Jan-17	220	08-Feb-17	234	08-Mar-17	242
09-Jan-17	219	09-Feb-17	237	09-Mar-17	242
10-Jan-17	143	10-Feb-17	239	10-Mar-17	245
11-Jan-17	153	11-Feb-17	237	11-Mar-17	244
12-Jan-17	175	12-Feb-17	235	12-Mar-17	243
13-Jan-17	183	13-Feb-17	227	13-Mar-17	241
14-Jan-17	181	14-Feb-17	218	14-Mar-17	241
15-Jan-17	179	15-Feb-17	206	15-Mar-17	241
16-Jan-17	179	16-Feb-17	221	16-Mar-17	235
17-Jan-17	179	17-Feb-17	229	17-Mar-17	229
18-Jan-17	178	18-Feb-17	222	18-Mar-17	227
19-Jan-17	196	19-Feb-17	232	19-Mar-17	226
20-Jan-17	213	20-Feb-17	235	20-Mar-17	225
21-Jan-17	209	21-Feb-17	215	21-Mar-17	175
22-Jan-17	207	22-Feb-17	235	22-Mar-17	225
23-Jan-17	203	23-Feb-17	235	23-Mar-17	227
24-Jan-17	202	24-Feb-17	229	24-Mar-17	230
25-Jan-17	201	25-Feb-17	226	25-Mar-17	222
26-Jan-17	211	26-Feb-17	225	26-Mar-17	220
27-Jan-17	219	27-Feb-17	221	27-Mar-17	219
28-Jan-17	217	28-Feb-17	222	28-Mar-17	217
29-Jan-17	215	01-Feb-17	229	29-Mar-17	215
30-Jan-17	213	02-Feb-17	235	30-Mar-17	224
31-Jan-17	215			31-Mar-17	238

*TGD=Thousand gallons per day



Consent Decree – Case No. 2:96-CV-96-RL-1
Dewatering Well System Monitoring, 1st Quarter 2017
ArcelorMittal Burns Harbor, LLC

Attachment 3 – Dewatering Well Status Reports



STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
D. Ekkens
Weaver Boos Consultants

Date	1/5/2017	Time:	9:00 AM	Barometric Pressure: <u>30.05</u> (in Hg)				Temperature (F): <u>10</u>			
Staff Gauge (002) Elevation:	579.60	(Ft., MSL)		Weather Conditions: <u>Cloudy</u>				Wind Direction: <u>N 5 MPH</u>			
Well/Piezo No.	TOC	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	Piezometer Bottom Elevation (feet)	Flow Reading (100 gal)	Well/Piezometer No.	TOC (feet)	Depth to T/Screen (feet)	DTW (TOC) (feet)
DW-1	596.32	24.0	23.33	572.99	38		35.360	DW-10	596.47	24.0	23.14
P-511	592.29	Filled	#VALUE!	x	#VALUE!			P-520	595.93	7.22	588.71
DW-2	595.91	24.0	23.25	572.66	38		43.818	DW-11	595.82	24.3	7.22
P-512	593.16	x	#VALUE!	x	#VALUE!			P-521	596.19	7.95	588.24
DW-3	596.13	22.0	21.22	574.91	50		279.534	DW-12	595.28	26.5	26.45
P-513	592.81	3.96	568.85	22.5	570.29			P-522	595.17	7.31	587.86
DW-4	596.28	23.0	22.16	574.12	41		114.146	DW-13	594.83	27.0	26.91
P-514	592.80	4.21	588.59	25.5	567.32			P-523	592.04	Destroyed #VALUE!	x
DW-5	596.16	21.0	19.42	576.74	50		259.801	DW-14	594.83	26.5	26.27
P-515	592.65	3.60	589.05	22.2	570.43			P-507	591.38	Destroyed #VALUE!	x
DW-6	596.46	24.0	23.09	573.37	52		162.628	DW-15	594.62	29.5	29.17
P-516	596.30	8.08	588.22	31.5	564.78			P-524	591.55	2.72	588.83
DW-7	596.39	25.0	24.88	571.51	0		137.499	P-508	591.37	Destroyed #VALUE!	x
P-517	596.55	8.03	588.52	29.7	566.83			DW-16	594.81	36.0	5.88
DW-8	596.21	24.5	23.71	572.50	22		36.281				
P-518	596.17	7.44	588.73	30.7	565.45						
DW-9	596.16	24.5	8.03	588.13	46		15.048				
P-519	596.56	7.91	588.65	31.4	565.15						

Remarks: DW-5, DW-6, DW-7, DW-8 and DW-10 were adjusted down due to high initial water levels.

DW-1, DW-4, and DW-15 were adjusted up due to low initial water levels. DW-9 was wide open.

DW-11 was offline, unable to restart. DW-6 handwheel remained broken from its valve stem, adjusted using pipe wrench.

DW-16 was offline, unable to restart. Leaking approximately 2 gallons per minute from discharge ppe.

P-512 was covered by a vehicle. DW-7 has a faulty pressure gauge.

Key: TOC=Top of Casing, north side

DTW=Depth to Water

DTB=Depth to Bottom

Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC

7121 Grape Road

Granger, IN 46530

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(574) 271-3343 Fax.

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STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by: D. Ekvens

Weaver Boos Consultants

Date	1/12/2017	Time:	9:00 AM
Staff Gauge (002) Elevation:	579.60	(Ft. MSL)	

Well Piezo No.	Well/Piezoe TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoe Water Elev. (PSI)	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)	Well/Piezoe TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoe Water Elev. (PSI)	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.98	572.34	42			35.861	DW-10	596.47	24.0	23.15	573.32	44		124,796
P-511	592.29		Filled	#VALUE!		x	#VALUE!		P-520	595.93	7.01	588.92		30.40	565.53	
DW-2	595.91	24.0	23.07	572.84	38			44,124	DW-11	595.82	24.3	7.04	588.78	0		0
P-512	593.16		x	#VALUE!		x	#VALUE!		P-521	596.19		7.72	588.47		33.45	562.74
DW-3	596.13	22.0	21.22	574.91	48			282,587	DW-12	595.28	26.5	26.40	568.88	23		60,043
P-513	592.81		x	#VALUE!		22.5	570.29		P-522	595.17		6.82	588.35		33.2	561.94
DW-4	596.28	23.0	22.88	573.40	46			114,711	DW-13	594.83	27.0	26.90	567.93	32		47,670
P-514	592.80		x	#VALUE!		25.5	567.32		P-523	592.04		Destroyed	#VALUE!	x	#VALUE!	
DW-5	596.16	21.0	20.44	575.72	44			263,187	DW-14	594.83	26.5	26.27	568.56	30		15,523
P-515	592.65		x	#VALUE!		22.2	570.43		P-507	591.38		Destroyed	#VALUE!	x	#VALUE!	
DW-6	596.46	24.0	7.52	588.94	0			163,760	DW-15	594.62	29.5	28.55	566.07	14		18,533
P-516	596.30		7.19	589.11		31.5	564.78		P-524	591.55		2.72	588.83		35.30	556.25
DW-7	596.39	25.0	24.02	572.37	40			138,911	P-508	591.37		Destroyed	#VALUE!	x	#VALUE!	
P-517	596.55		7.44	589.11		29.7	566.83		DW-16	594.81	36.0	35.88	558.93		26	15
DW-8	596.21	24.5	24.31	571.90	22			36,908								
P-518	596.17		6.91	589.26		30.7	565.45									
DW-9	596.16	24.5	7.11	589.05	44			15,197								
P-519	596.56		7.49	589.07		31.4	565.15									

Remarks: DW-4, DW-5, DW-8, and DW-10 were adjusted down due to high initial water levels.

DW-1, DW-2, DW-12, DW-15 and DW-16 were adjusted up due to low initial water levels. DW-9 was wide open.

DW-6 was offline. Electrical cover was blown open and the inside covered with ice. DW-11 was offline, unable to restart.

DW-16 received new flow meter.

P-512, P-513, P-514, P-515 submerged under standing surface water.

Key: TOC=Top of Casing, north side

DTW=Depth to Water

Granger, IN 46530

Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC

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STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
D. Ekkens
Weaver Boos Consultants

Date	1/19/2017	Time:	9:00 AM	Barometric Pressure:	30.01	(in Hg)	Temperature (F):	36
Staff Gauge (002) Elevation:	579.80	(Ft., MSL)		Weather Conditions:	Cloudy		Wind Direction:	ESE 8 MPH

Well/ Piezo No.	Well/Piez o TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	Piez o Bottom Elevation (feet)	Flow Reading (100 gal)	Well/ Piezo No. Elev.	Well/Piez o TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB	Piez o Bottom Elevation (feet)	Flow Reading (100 gal)
DW-1	596.32	24.0	23.82	572.50	32		36.347	DW-10	596.47	24.0	23.04	573.43	46			126.729
P-511	592.29		Filled	#VALUE!	x	#VALUE!		P-520	595.93		6.64	589.29		30.40	565.53	
DW-2	595.91	24.0	23.97	571.94	28		44.640	DW-11	595.82	24.3	6.60	589.22	0		0	
P-512	593.16		3.65	589.51		25.0	568.12	P-521	596.19		7.34	588.85		33.45	562.74	
DW-3	596.13	22.0	21.23	574.90	47		284.809	DW-12	595.28	26.5	25.65	569.63	24			63.291
P-513	592.81		x	#VALUE!		22.5	570.29	P-522	595.17		6.81	588.36		33.2	561.94	
DW-4	596.28	23.0	22.41	573.87	41		115.673	DW-13	594.83	27.0	26.86	567.97	36			49.473
P-514	592.80		3.85	588.95		25.5	567.32	P-523	592.04		Destroyed	#VALUE!	x	#VALUE!		
DW-5	596.16	21.0	19.63	576.53	42		263.204	DW-14	594.83	26.5	26.27	568.56	34			15.679
P-515	592.65		x	#VALUE!		x	#VALUE!	P-507	591.38		Destroyed	#VALUE!	x	#VALUE!		
DW-6	596.46	24.0	7.12	589.34	38		163.761	DW-15	594.62	29.5	29.42	565.20	17			18.718
P-516	596.30		6.98	589.32		31.5	564.78	P-524	591.55		2.24	589.31		35.30	556.25	
DW-7	596.39	25.0	24.62	571.77	40		140.490	P-508	591.37		Destroyed	#VALUE!	x	#VALUE!		
P-517	596.55		7.24	589.31		29.7	566.83	DW-16	594.81	36.0	35.11	559.70	29			109
DW-8	596.21	24.5	23.98	572.23	23		37.582									
P-518	596.17		6.77	589.40		30.7	565.45									
DW-9	596.16	24.5	7.02	589.14	44		15.278									
P-519	596.56		7.27	589.29		31.4	565.15									

Remarks:

DW-4, DW-5, DW-8, and DW-10 were adjusted down due to high initial water levels.

DW-1 and DW-16 were adjusted up due to low initial water levels. DW-9 was wide open.

DW-6 was online on arrival but was shutdown due to leaking beneath flow valve. DW-11 was offline, unable to restart.

Key:	TOC=Top of Casing, north side
DTW=Depth to Water	Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC 7121 Grape Road Granger, IN 46530
DTB=Depth to Bottom	(574) 271-3447 Tel. (574) 271-3343 Fax. sstanford@weaverboos.com



STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
S. Stanford
Weaver Boos Consultants

Date	1/26/2017	Time:	8:00 AM	Barometric Pressure: <u>29.50</u> (in Hg)				Temperature (F): <u>33</u>			
Staff Gauge (002) Elevation:	580.00	(Ft., MSL)		Weather Conditions: <u>Cloudy</u>				Wind Direction: <u>W 5 MPH</u>			
Well/Piezo No.	TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	Piezoelectric Bottom Elevation (feet)	DTB (feet)	Well/Piezoelectric TOC (feet)	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Pres. (PSI)
DW-1	596.32	24.0	23.22	573.10	34			596.47	24.0	23.17	573.30
P-511	592.29	Filled	#VALUE!		x	#VALUE!		P-520	595.93	6.72	589.21
DW-2	595.91	24.0	23.93	571.98	31		45.144	DW-11	595.82	24.3	6.68
P-512	593.16	3.97	589.19		25.0	568.12		P-521	596.19	7.40	588.79
DW-3	596.13	22.0	21.24	574.89	48		287.043	DW-12	595.28	26.5	25.95
P-513	592.81	4.11	588.70		22.5	570.29		P-522	595.17	6.87	588.30
DW-4	596.28	23.0	22.75	573.53	40		117.048	DW-13	594.83	27.0	26.85
P-514	592.80	4.42	588.38		25.5	567.32		P-523	592.04	Destroyed #/VALUE!	x
DW-5	596.16	21.0	19.81	576.35	40		263.204	DW-14	594.83	26.5	26.02
P-515	592.65	4.03	588.62		x	#VALUE!		P-507	591.38	Destroyed #/VALUE!	x
DW-6	596.46	24.0	24.00	572.46	37		163.761	DW-15	594.62	29.5	29.50
P-516	596.30	7.25	589.05		31.3	565.05		P-524	591.55	2.41	589.14
DW-7	596.39	25.0	23.91	572.48	40		141.975	P-508	591.37	Destroyed #/VALUE!	x
P-517	596.55	7.46	589.09		29.7	566.83		DW-16	594.81	36.0	35.55
DW-8	596.21	24.5	23.40	572.81	26		38.257				34.90
P-518	596.17	6.95	589.22		30.6	565.61					556.65
DW-9	596.16	24.5	22.22	588.94	43		15.371				
P-519	596.56	7.49	589.07		31.3	565.28					

Remarks: DW-6 and DW-10 were adjusted down due to high initial water levels.

DW-1, DW-2, DW-14, DW-15 and DW-16 were adjusted up due to low initial water levels.

DW-6 offline, electrical panel open and won't shut. Leak beneath flow valve fixed. Successfully restarted by Mr. Zoro.

DW-9 flow valve wide open. DW-11 offline, power cable disconnected, new flow meter has been installed.

TOC=Top of Casing, north side	Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC
DTW=Depth to Water	(574) 271-3447 Tel. (574) 271-3343 Fax.
DTB=Depth to Bottom	sstanford@weaverboos.com

Key:

TOC=Top of Casing, north side
DTW=Depth to Water
DTB=Depth to Bottom



STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

D. Ekens

Weaver Boos Consultants

Date	2/2/2017	Time:	8:30 AM	Barometric Pressure: <u>30.41</u> (in Hg)				Temperature (F): <u>19</u>			
Staff Gauge (002) Elevation:	580.00	(Ft. MSL)		Weather Conditions: <u>Clear</u>				Wind Direction: <u>NNW 13 MPH</u>			

Well Piezo No.	Well/Piezotoc Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezowater Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezobottom Elevation	Flow Reading (100 gal)	Well/Piezotoelev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezowater elev.	Gauge Pres. (PSI)	DTB piezobottom elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.68	572.64	34			37,260	DW-10	596.47	24.0	23.22	573.25	44	
P-511	592.29		Filled	#VALUE!	x	#VALUE!			P-520	595.93	7.26	588.67		30.31	565.62
DW-2	595.91	24.0	23.51	572.40	31			45,631	DW-11	595.82	24.3	18.54	577.28	31	296
P-512	593.16		3.97	589.19		25.0	568.12		P-521	596.19		7.97	588.22		33.45
DW-3	596.13	22.0	21.28	574.85	48			289,305	DW-12	595.28	26.5	26.36	568.92	26	69,426
P-513	592.81		4.11	588.70	22.5	570.29			P-522	595.17		7.18	587.99		32.9
DW-4	596.28	23.0	22.05	574.23	40			118,374	DW-13	594.83	27.0	26.86	567.97	36	53,614
P-514	592.80		4.42	588.38		25.5	567.32		P-523	592.04		Destroyed	#VALUE!	x	#VALUE!
DW-5	596.16	21.0	20.41	575.75	40			263,204	DW-14	594.83	26.5	26.27	568.56	36	16,195
P-515	592.65		4.03	588.62	x	#VALUE!			P-507	591.38		Destroyed	#VALUE!	x	#VALUE!
DW-6	596.46	24.0	23.90	572.56	37			165,262	DW-15	594.62	29.5	28.76	565.86	24	19,089
P-516	596.30		7.87	588.43		31.3	565.05		P-524	591.55		2.43	589.12		34.90
DW-7	596.39	25.0	24.53	571.86	38			143,418	P-508	591.37		Destroyed	#VALUE!	x	#VALUE!
P-517	596.55		7.91	588.64		29.7	566.83		DW-16	594.81	36.0	35.87	558.94	29	306
DW-8	596.21	24.5	23.52	572.69	27										
P-518	596.17		7.30	588.87		30.6	565.61								
DW-9	596.16	24.5	7.56	588.60	43										
P-519	596.56		7.81	588.75		31.3	565.28								

Remarks:
DW-6, DW-8 and DW-10 were adjusted down due to high initial water levels.

DW-1, DW-4, DW-5, and DW-16 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.

DW-5 flow meter did not advance but pump appeared to be operating normally.

Key:	TOC=Top of Casing, north side	(574) 271-3447 Tel.
DTW=Depth to Water		(574) 271-3343 Fax.
DW-5=Depth to Bottom		sstanford@weaverboos.com



STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewaterting Report

Weekly Status Report

D. Ekkens

Observations by:
Weaver Boos Consultants

Date	2/9/2017	Time:	8:00 AM	Barometric Pressure: 29.83 (in Hg)			Temperature (F): 16		
Staff Gauge (002) Elevation:	580.10	(Ft., MSL)		Weather Conditions: Clear, Windy			Wind Direction: NW/24 MPH		

Well/Piez o No.	TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piez o Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piez o Bottom Elevation	Flow Reading (100 gal)	Well/Piez o No. Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piez o Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piez o Bottom Elevation	Flow Reading (100 gal)	
DW-1	596.32	24.0	23.42	572.90	49			37,490	DW-10	596.47	24.0	23.77	572.70	47		133,426	
P-511	592.29		Filled	#VALUE!	x	#VALUE!			P-520	595.93		6.96	588.97		30.31	565.62	
DW-2	595.91	24.0	23.47	572.44	36			46,098	DW-11	595.82	24.3	18.51	577.31	36		2,206	
P-512	593.16		x	#VALUE!		25.0	568.12		P-521	596.19		7.65	588.54		33.45	562.74	
DW-3	596.13	22.0	21.74	574.39	49			291,689	DW-12	595.28	26.5	26.26	569.02	26		72,154	
P-513	592.81		x	#VALUE!		22.5	570.29		P-522	595.17		6.85	588.32		32.9	562.26	
DW-4	596.28	23.0	22.04	574.24	0			119,588	DW-13	594.83	27.0	26.86	567.97	36		55,821	
P-514	592.80		x	#VALUE!		25.5	567.32		P-523	592.04		Destroyed	#VALUE!	x	#VALUE!		
DW-5	596.16	21.0	20.44	575.72	35			263,204	DW-14	594.83	26.5	26.26	568.57	35		16,414	
P-515	592.65		x	#VALUE!		x	#VALUE!		P-507	591.38		Destroyed	#VALUE!	x	#VALUE!		
DW-6	596.46	24.0	23.61	572.85	40			166,277	DW-15	594.62	29.5	28.79	565.83	0		19,271	
P-516	596.30		7.51	588.79		31.3	565.05		P-524	591.55		2.42	589.13		34.90	556.65	
DW-7	596.39	25.0	24.85	571.54	46			144,779	P-508	591.37		Destroyed	#VALUE!	x	#VALUE!		
P-517	596.55		7.47	589.08		29.7	566.83		DW-16	594.81		36.0	35.92	558.89	30		410
DW-8	596.21	24.5	23.55	572.66	22			39,577									
P-518	596.17		6.93	589.24		30.6	565.61										
DW-9	596.16	24.5	7.16	589.00	45			15,569									
P-519	596.56		7.50	589.06		31.3	565.28										

Remarks:
DW-1, DW-4, DW-6, DW-7, DW-8, DW-10, and DW-12 were adjusted down due to high initial water levels.

DW-5 and DW-16 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open. DW-4 and DW-15 pressure gauge faulty.

DW-5 flow meter did not advance but pump appeared to be operating normally. P-512, P-513, P-514, P-515 were iced over an could not be opened.

Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC

7121 Grape Road
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(574) 271-3343 Fax.
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Key:
TOC=Top of Casing, north side
DTW=Depth to Water
DTB=Depth to Bottom



STATUS REPORT
Mittal Steel USA
Burns Harbor

East Harbor Arm - Dewatering Report
Weekly Status Report

Time: 9:00 AM
Date 2/16/2017
Staff Gauge (002) Elevation: 579.80 (Ft., MSL)

		Barometric Pressure: 29.98 (in Hg)		Temperature (F): 33.6	
		Weather Conditions: Cloudy		Wind Direction: N 1.1 MPH	
				Observations by: D. Ekvens	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) Water Elev. (feet)	Well/Piezo Gauge Pres. (PSI)	DTB Piezo Bottom Elevation (100 gal)	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) Water Elev. (feet)	Well/Piezo Gauge Pres. (PSI)	DTB Piezo Bottom Elevation (feet)	Flow Reading (100 gal)
DW-1	596.32	24.0	23.26	573.06	45	37.725	DW-10	596.47	24.0	23.31	573.16	42	135.986
P-511	592.29	Filled	#VALUE!	x	#VALUE!		P-520	595.93	7.27	588.66		30.31	565.62
DW-2	595.91	24.0	23.43	572.48	32	46.576	DW-11	595.82	24.3	18.53	577.29	30	4,226
P-512	593.16	x	#VALUE!	25.0	568.12		P-521	596.19	7.92	588.27		33.45	562.74
DW-3	596.13	22.0	21.68	574.45	48		DW-12	595.28	26.5	25.51	569.77	25	74.755
P-513	592.81		3.86	588.95	22.5	570.29	P-522	595.17	7.10	588.07		32.9	562.26
DW-4	596.28	23.0	22.12	574.16	43	120.747	DW-13	594.83	27.0	26.87	567.96	37	57,986
P-514	592.80		4.07	588.73	25.5	567.32	P-523	592.04	Destroyed	#VALUE!	x	#VALUE!	
DW-5	596.16	21.0	19.56	576.60	43	208	DW-14	594.83	26.5	26.26	568.57	34	16,650
P-515	592.65		4.03	588.62	22.2	570.43	P-507	591.38	Destroyed	#VALUE!	x	#VALUE!	
DW-6	596.46	24.0	23.31	573.15	38	167.624	DW-15	594.62	29.5	29.46	565.16	23	19,449
P-516	596.30		7.60	588.70	31.3	565.05	P-524	591.55	2.63	588.92		34.90	556.65
DW-7	596.39	25.0	24.16	572.23	40	146.133	P-508	591.37	Destroyed	#VALUE!	x	#VALUE!	
P-517	596.55		7.67	588.88	29.7	566.83	DW-16	594.81	36.0	35.91	558.90	29	508
DW-8	596.21	24.5	24.02	572.19	22	40.231							
P-518	596.17		7.18	588.99	30.6	565.61							
DW-9	596.16	24.5	7.46	588.70	46	15.665							
P-519	596.56		7.77	588.79	31.3	565.28							

Remarks:
DW-1, DW-5, DW-6, DW-7, DW-8, and DW-12 were adjusted down due to high initial water levels.
DW-16 was adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.
P-512 was covered by a vehicle. DW-5 received a new flow meter.

TOC=Top of Casing, north side	Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC 7121 Grape Road Granger, IN 46530
DW=Depth to Water	(574) 271-3447 Tel. (574) 271-3343 Fax. sstanford@weaverboos.com

Key:

TOC=Top of Casing, north side
DW=Depth to Water
DTB=Depth to Bottom



STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
D. Ekkens
Weaver Boos Consultants

Date	2/23/2017	Time:	8:30 AM	Barometric Pressure: <u>29.77</u> (in Hg)				Temperature (F): <u>50</u>			
Staff Gauge (002) Elevation:	579.80	(Ft., MSL)	Weather Conditions: Clear								
Well/ Piezo No.	Well/Piezometer TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezometer Water Elev.	Gauge Pres. (PSI)	Piezometer Bottom Elevation	Flow Reading (100 gal)	Well/Piezometer TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezometer Water Elev.
DW-1	596.32	24.0	23.11	573.21	33	38.182		DW-10	596.47	24.0	23.57
P-511	592.29		Filled	#VALUE!	x	#VALUE!		P-520	595.93	7.22	588.71
DW-2	595.91	24.0	23.52	572.39	35	46.970		DW-11	595.82	24.3	18.56
P-512	593.16		x	#VALUE!	25.0	568.12		P-521	596.19	7.89	588.30
DW-3	596.13	22.0	21.26	574.87	42	296.479		DW-12	595.28	26.5	26.42
P-513	592.81		4.32	588.49	22.5	570.29		P-522	595.17	7.10	588.07
DW-4	596.28	23.0	22.63	573.65	32	122.114		DW-13	594.83	27.0	26.86
P-514	592.80		4.66	588.14	25.5	567.32		P-523	592.04	Destroyed	#VALUE!
DW-5	596.16	21.0	19.78	576.38	38	2,517		DW-14	594.83	26.5	26.21
P-515	592.65		4.31	588.34	22.2	570.43		P-507	591.38	Destroyed	#VALUE!
DW-6	596.46	24.0	23.66	572.80	38	169.074		DW-15	594.62	29.5	29.31
P-516	596.30		7.85	588.45	31.3	565.04		P-524	591.55	2.69	588.86
DW-7	596.39	25.0	24.48	571.91	40	147,461		P-508	591.37	Destroyed	#VALUE!
P-517	596.55		7.81	588.74	29.6	566.92		DW-16	594.81	36.0	35.92
DW-8	596.21	24.5	23.50	572.71	23						
P-518	596.17		7.26	588.91	30.5	565.66					
DW-9	596.16	24.5	7.71	588.45	44						
P-519	596.56		7.82	588.74	31.3	565.30					

Remarks:
DW-7, DW-8, and DW-12 were adjusted down due to high initial water levels.

DW-1, DW-4, DW-12 and DW-16 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.

P-512 was covered by a vehicle.

Key:
TOC= Top of Casing, north side
DTW=Depth to Water
DTB=Depth to BottomContact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC
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STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
D. Ekkens
Weaver Boos Consultants

Date	3/2/2017	Time:	8:30 AM	Barometric Pressure: <u>29.54</u> (in Hg)				Temperature (F): <u>31</u>			
Staff Gauge (002) Elevation:	580.40	(Ft., MSL)	Weather Conditions:	Cloudy	Wind Direction:	N 10 MPH					
Well Piezo No.	Well/Piezoelectric TOC	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoelectric Bottom Elevation	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)
DW-1	596.32	24.0	23.61	572.71	40			23.19	24.0	23.19	46
P-511	592.29		Filled	#VALUE!	x	#VALUE!		P-520	595.93	6.31	589.62
DW-2	595.91	24.0	23.04	572.87	35			DW-11	595.82	24.3	18.54
P-512	593.16		x	#VALUE!		25.0	568.12	P-521	596.19	7.02	589.17
DW-3	596.13	22.0	21.27	574.86	48			DW-12	595.28	26.5	26.44
P-513	592.81		3.45	589.36	22.5	570.29		P-522	595.17	5.97	589.20
DW-4	596.28	23.0	22.12	574.16	35			DW-13	594.83	27.0	26.86
P-514	592.80		3.79	589.01	25.5	567.32		P-523	592.04	Destroyed #VALUE!	x
DW-5	596.16	21.0	19.62	576.54	39			DW-14	594.83	26.5	26.25
P-515	592.65		x	#VALUE!		22.2	570.43	P-507	591.38	Destroyed #VALUE!	x
DW-6	596.46	24.0	23.41	573.05	39			DW-15	594.62	29.5	29.39
P-516	596.30		6.72	589.58	31.3	565.04		P-524	591.55	x	#VALUE!
DW-7	596.39	25.0	24.80	571.59	40			P-508	591.37	Destroyed #VALUE!	x
P-517	596.55		6.69	589.86	29.6	566.92		DW-16	594.81	36.0	35.02
DW-8	596.21	24.5	23.62	572.59	24					559.79	34
P-518	596.17		6.12	590.05	30.5	565.66					
DW-9	596.16	24.5	6.75	589.41	45						
P-519	596.56		6.72	589.84	31.3	565.30					

Remarks: DW-2 and DW-15 were offline on arrival but were successfully restarted.

DW-2, DW-7, DW-8, DW-10, DW-12 and DW-15 were adjusted down due to high initial water levels.

DW-1 and DW-4 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.

P-512 was obstructed by a vehicle. P-515 and P-524 were covered by water.

Key: TOC=Top of Casing, north side

DTW=Depth to Water

DTB=Depth to Bottom

DW-2, DW-7, DW-8, DW-10, DW-12 and DW-15 were adjusted down due to high initial water levels.	DW-1 and DW-4 were adjusted up due to low initial water levels.	DW-9 and DW-11 flow valve wide open.	P-512 was obstructed by a vehicle. P-515 and P-524 were covered by water.
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Contact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC

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STATUS REPORT

Mittal Steel USA
Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

D. Ekkins

Observations by:
Weaver Boos Consultants

Date	3/16/2017	Time:	9:00 AM	Barometric Pressure:	30.40	(in Hg)	Temperature (F):	33
Staff Gauge (002) Elevation:	579.90	(Ft. MSL)		Weather Conditions:	Clear		Wind Direction:	N 3 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	
DW-1	596.32	24.0	23.54	572.78	45				DW-10	596.47	24.0	23.05	573.42	40				146,080
P-511	592.29		Filled	#VALUE!	x	#VALUE!	39,166		P-520	595.93	7.21	588.72		30.29	565.64			
DW-2	595.91	24.0	23.50	572.41	30		47,930		DW-11	595.82	24.3	18.56	577.26	31				12,991
P-512	593.16		x	#VALUE!	25.0	568.12			P-521	596.19	7.79	588.40		33.41	562.78			
DW-3	596.13	22.0	21.28	574.85	27		305,015		DW-12	595.28	26.5	26.48	568.80	25				83,792
P-513	592.81		x	#VALUE!	22.5	570.29			P-522	595.17	6.95	588.22		32.9	562.27			
DW-4	596.28	23.0	22.37	573.91	40		126,425		DW-13	594.83	27.0	26.85	567.98	36				66,226
P-514	592.80		4.91	587.89	25.5	567.32			P-523	592.04	Destroyed	#VALUE!	x	#VALUE!	x			
DW-5	596.16	21.0	20.47	575.69	34		11,398		DW-14	594.83	26.5	26.24	568.59	35				17,629
P-515	592.65		x	#VALUE!	22.2	570.43			P-507	591.38	Destroyed	#VALUE!	x	#VALUE!	x			
DW-6	596.46	24.0	23.82	572.64	38		173,723		DW-15	594.62	29.5	29.41	565.21	16				19,783
P-516	596.30		7.99	588.31	31.3	565.04			P-524	591.55	2.40	589.15		34.98	556.57			
DW-7	596.39	25.0	24.65	571.74	40		151,866		P-508	591.37	Destroyed	#VALUE!	x	#VALUE!	x			
P-517	596.55		7.86	588.69	29.6	566.92			DW-16	594.81	36.0	35.44	559.37	33				746
DW-8	596.21	24.5	23.71	572.50	22													
P-518	596.17		7.26	588.91	30.5	565.66												
DW-9	596.16	24.5	7.80	588.36	46													
P-519	596.56		7.80	588.76	31.3	565.30												

Remarks: DW-8, DW-12, and DW-16 were adjusted down due to high initial water levels.

DW-4, DW-5, DW-6, DW-7, and DW-15 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.

P-512 was iced over inside its manhole cover. P-513 and P-515 were submerged under standing water.

Key:

TOC=Top of Casing, north side
DTW=Depth to Water
DTB=Depth to BottomContact: Steven M. Stanford, LPG, Weaver Consultants Group, LLC
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STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:
P. Kostro
Weaver Boos Consultants

Date	Time:	11:00 AM		
Staff Gauge (002) Elevation:		579.90	(Ft., MSL)	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)	Barometric Pressure: <u>30.40</u> (in Hg)		Temperature (F): <u>35</u>	
									Weather Conditions: <u>Cloudy</u>	Wind Direction: <u>SWS 12 MPH</u>	Well/Piez o No.	Depth to TOC (feet)
DW-1	596.32	24.0	23.86	572.46	49			39.436	DW-10	596.47	24.0	23.67
P-511	592.29		Filled	#VALUE!	x	#VALUE!			P-520	595.93	7.08	588.85
DW-2	595.91	24.0	23.64	572.27	39			48.276	DW-11	595.82	24.3	18.54
P-512	593.16		x	#VALUE!	x	#VALUE!			P-521	596.19	7.68	588.51
DW-3	596.13	22.0	21.23	574.90	46			308.068	DW-12	595.28	26.5	26.32
P-513	592.81		4.45	588.36	22.1	570.73			P-522	595.17	6.89	588.28
DW-4	596.28	23.0	22.75	573.53	43			127.442	DW-13	594.83	27.0	26.85
P-514	592.80		4.56	588.24	25.4	567.41			P-523	592.04	Destroyed	#VALUE!
DW-5	596.16	21.0	20.12	576.04	38			14.610	DW-14	594.83	26.5	25.21
P-515	592.65		4.34	588.31	22.1	570.53			P-507	591.38	Destroyed	#VALUE!
DW-6	596.46	24.0	23.62	572.84	39			174.750	DW-15	594.62	29.5	29.43
P-516	596.30		7.61	588.69	31.3	565.02			P-524	591.55	2.51	589.04
DW-7	596.39	25.0	24.87	571.52	38			153.482	P-508	591.37	Destroyed	#VALUE!
P-517	596.55		7.65	588.90	29.6	566.91			DW-16	594.81	36.0	35.74
DW-8	596.21	24.5	24.32	571.89	23			43.388			559.07	33
P-518	596.17		7.10	589.07	30.6	565.60						
DW-9	596.16	24.5	7.74	588.42	44			16.476				
P-519	596.56		7.69	588.87	31.3	565.27						

Remarks: DW-1, DW-4, DW-6, DW-8, DW-10 and DW-12 were adjusted down due to high initial water levels.

DW-5, DW-7, DW-14 and DW-15 were adjusted up due to low initial water levels.

DW-9 and DW-11 flow valve wide open.

P-512 had vehicle parked over the well.

TOC= Top of Casing, north side
DW-5, DW-7, DW-14 and DW-15 were adjusted up due to low initial water levels.
DW-9 and DW-11 flow valve wide open.
P-512 had vehicle parked over the well.

Key:

TOC=Top of Casing, north side
DW-5, DW-7, DW-14 and DW-15 were adjusted up due to low initial water levels.
DW-9 and DW-11 flow valve wide open.
P-512 had vehicle parked over the well.Contact: Steven M. Staniford, LPG, Weaver Consultants Group, LLC
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STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by: P. Kostro

Weaver Boos Consultants

Date	3/30/2017	Time:	12:00 AM	Barometric Pressure: <u>29.74</u> (in Hg)			Temperature (F): <u>43</u>		
Staff Gauge (002) Elevation:	580.50	(Ft., MSL)	Weather Conditions: Raining			Wind Direction: N 11 MPH			

Well/Piezo No.	Well/Piezoelectric TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB Piezo Bottom Elevation (feet)	Flow Reading (100 gal)	Well/Piezoelectric TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB	Piezoelectric Bottom Elevation (feet)	Flow Reading (100 gal)
DW-1	596.32	24.0	23.19	573.13	50		39.527	DW-10	596.47	24.0	23.52	572.95	40		150.379
P-511	592.29		Filled	#VALUE!		x	#VALUE!	P-520	595.93		6.35	589.58		30.25	565.68
DW-2	595.91	24.0	23.56	572.35	30		48.296	DW-11	595.82	24.3	18.55	577.27	30		17.357
P-512	593.16		x	#VALUE!		x	#VALUE!	P-521	596.19		6.92	589.27		33.33	562.86
DW-3	596.13	22.0	21.20	574.93	48		311.077	DW-12	595.28	26.5	25.51	569.77	25		87.757
P-513	592.81		x	#VALUE!		22.1	570.73	P-522	595.17		5.73	589.44		33.0	562.21
DW-4	596.28	23.0	22.74	573.54	40		128.606	DW-13	594.83	27.0	26.30	568.53	30		70.250
P-514	592.80		x	#VALUE!		25.4	567.41	P-523	592.04		Destroyed	#VALUE!	x	#VALUE!	
DW-5	596.16	20.5	19.57	576.59	38		17.937	DW-14	594.83	26.5	26.30	568.53	35		18,100
P-515	592.65		x	#VALUE!		22.1	570.53	P-507	591.38		Destroyed	#VALUE!	x	#VALUE!	
DW-6	596.46	24.0	23.90	572.56	38		176.393	DW-15	594.62	29.5	29.05	565.57	32		20,080
P-516	596.30		7.17	589.13		31.3	565.02	P-524	591.55		x	#VALUE!		34.89	556.66
DW-7	596.39	25.0	24.51	571.88	39		154.970	P-508	591.37		Destroyed	#VALUE!	x	#VALUE!	
P-517	596.55		6.95	589.60		29.6	566.91	DW-16	594.81	36.0	35.41	559.40	35		891
DW-8	596.21	24.5	24.15	572.06	24		44.006								
P-518	596.17		6.25	589.92		30.6	565.60								
DW-9	596.16	24.5	6.86	589.30	45		16.672								
P-519	596.56		7.05	589.51		31.3	565.27								

Remarks:
DW-1, DW-2, DW-4, DW-8, DW-10 and DW-12 were adjusted down due to high initial water levels. DW-14 and DW-15 were adjusted up.
DW-9 and DW-11 flow valve wide open.

P-512 covered by vehicle. P-513, P-514, P-515, and P-524 were covered by water.

DW-2 was offline, but was successfully restarted.

Key:

TOC=Top of Casing, north side
DTW=Depth to Water
DTB=Depth to Bottom

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